**RESULTS**

- **NIPS Results (Figure 2a):**
  - Over a 39-month period, 67,122 NIPS results (1,198 screen-positive and 65,924 screen-negative tests) were issued through the automated results-delivery system to 66,475 unique patients. Of this population, 4,655 (7.0% overall; range of 4.2%-11.3% by ethnicity) elected a genetic consultation. These consultations accounted for 4,672 total tests and 4,776 consultations. Median patient age was 34 years (IQR: 30-37 years). 14 different ethnicities were reported for 50,127 eligible patients. Of this population, 4,655 (7.0% overall; range of 4.2%-11.3% by ethnicity) elected a genetic consultation. These consultations accounted for 4,672 total tests and 4,776 consultations. Median patient age was 34 years (IQR: 30-37 years). 14 different ethnicities were reported for 50,127 eligible patients.

- **Carrier Screening Results (Figure 2b):**
  - Over an eight-year period, 278,318 carrier screening results were generated. Of these results, 74.0% (n=209,721) were on-demand and 6.6% (n=16,034) were scheduled. The median consultation time was 14 minutes (IQR: 10-20 minutes).

**CONCLUSIONS**

- This study demonstrates the feasibility of a large-scale automated results-delivery system that yields high patient satisfaction and includes both on-demand and scheduled tele-genetic consultations. These platforms may help overcome geographic barriers, employment conflicts, and long wait times. We show an efficient and scalable means of implementing medical guidelines on post-genetic-testing patient management in order to maintain high-quality patient care.

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**REFERENCES**